

RECREATIONAL INTERPRETATIONS  
Benson County Area, North  
Dakota

The soils of the survey area are rated in the following tables according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. Slightly limited indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in this table can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

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Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
3: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
4: FARGO-----	Severe: flooding ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
5: HEGNE-----	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness
7: COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
8: COLVIN-----	Severe: flooding ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
9: RAUVILLE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
11: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
12B: BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
13C: BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
BUSE-----	Slight	Slight	Severe: slope	Slight	Slight
13D: BARNES-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
BUSE-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
14: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
14B: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
15: VALLERS, SALINE-	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
16: VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
18E: BUSE-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
19: TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
21: EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
HEIMDAL-----	Slight	Slight	Moderate: slope	Slight	Slight
22B: HEIMDAL-----	Slight	Slight	Moderate: slope	Slight	Slight
EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
23C: HEIMDAL-----	Slight	Slight	Severe: slope	Slight	Slight
ESMOND-----	Slight	Slight	Severe: slope	Slight	Slight
24: FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: slope wetness	Slight	Slight
EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
25D: ESMOND-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
HEIMDAL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
25E: ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
HEIMDAL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
26E: ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
SIOUX-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
27C: BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
SIOUX-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
28D: BARNES-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
SIOUX-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
30D: BARNES-----	Severe: slope	Severe: slope	Severe: large stones slope	Moderate: slope	Severe: slope
BUSE-----	Severe: slope	Severe: slope	Severe: large stones slope	Severe: large stones	Severe: large stones slope
31B: TOWNER-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
33C: DICKEY-----	Slight	Slight	Severe: slope	Slight	Slight
34: EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
HEIMDAL-----	Slight	Slight	Moderate: slope	Slight	Slight
34B: EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
HEIMDAL-----	Slight	Slight	Moderate: slope	Slight	Slight
34C: EMBDEN-----	Slight	Slight	Severe: slope	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
HEIMDAL-----	Slight	Slight	Severe: slope	Slight	Slight
41: OVERLY-----	Slight	Slight	Moderate: slope	Slight	Slight
42: GARDENA-----	Slight	Slight	Moderate: slope	Slight	Slight
42B: GARDENA-----	Slight	Slight	Moderate: slope	Slight	Slight
ECKMAN-----	Slight	Slight	Moderate: slope	Slight	Slight
43C: ECKMAN-----	Slight	Slight	Severe: slope	Slight	Slight
ZELL-----	Slight	Slight	Severe: slope	Slight	Slight
44: GLYNDON-----	Slight	Slight	Slight	Slight	Slight
45: BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
46: BORUP-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
47: FOSSUM-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
50B: GREAT BEND----	Slight	Slight	Moderate: slope	Slight	Slight
52B: EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
EGELAND-----	Slight	Slight	Moderate: slope	Slight	Slight
53: HECLA-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
54B: HECLA-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
MADDOCK-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
58: HECLA-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
59B: MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
HECLA-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
59D: MADDOCK-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
61: RENSHAW-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
61B: RENSHAW-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
63: BRANTFORD-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
63B: BRANTFORD-----	Slight	Slight	Moderate: slope small stones	Slight	Moderate: droughty
63C: BRANTFORD-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
64: DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
65: VANG-----	Slight	Slight	Moderate: slope	Slight	Slight
65B: VANG-----	Slight	Slight	Moderate: slope	Slight	Slight
66: MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
67: MARYSLAND-----	Severe: flooding ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
68B: ARVILLA-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
70B: BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
71: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
71B: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
73: LARSON-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
74B: CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
75: RYAN-----	Severe: flooding percs slowly ponding	Severe: excess sodium too clayey ponding	Severe: percs slowly too clayey ponding	Severe: too clayey ponding	Severe: excess sodium too clayey ponding
78: LADELLE-----	Severe: flooding	Slight	Slight	Slight	Slight
ABERDEEN-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
82B: DARNEN-----	Slight	Slight	Moderate: slope	Slight	Slight
83: LADELLE-----	Severe: flooding	Slight	Slight	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
85: LAMOURE-----	Severe: flooding wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
86: LADELLE, CHANNELED----	Severe: flooding	Moderate: flooding	Slight	Moderate: flooding	Severe: flooding
89: GRANO-----	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
90: PARNELL, PONDED-	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
LALLIE, PONDED--	Severe: excess salt ponding	Severe: excess salt ponding	Severe: excess salt ponding	Severe: ponding	Severe: excess salt ponding
91C: SIOUX-----	Moderate: small stones	Moderate: small stones	Severe: small stones	Slight	Severe: droughty
91E: SIOUX-----	Severe: slope	Severe: slope	Severe: slope small stones	Moderate: slope	Severe: droughty
98C: COE-----	Severe: small stones	Severe: small stones	Severe: small stones	Slight	Severe: small stones droughty
98E: COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
99C: CLAIRE-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope	Moderate: too sandy	Severe: droughty
101: LALLIE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
104: LALLIE, SALINE--	Severe: ponding	Severe: excess salt ponding	Severe: ponding	Severe: ponding	Severe: excess salt ponding
106: LALLIE, WET----	Severe: excess salt flooding ponding	Severe: excess salt ponding	Severe: excess salt ponding	Severe: ponding	Severe: excess salt ponding

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
107: MINNEWAUKAN-----	Severe: flooding wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: ponding droughty
109: AQUENTS-----	Severe: flooding wetness	Moderate: excess salt wetness	Severe: wetness	Moderate: wetness	Moderate: excess salt wetness
110B: AASTAD-----	Slight	Slight	Moderate: slope	Slight	Slight
BOTTINEAU-----	Slight	Slight	Moderate: slope	Slight	Slight
112F: EDGELEY VARIANT-	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
113C: BOTTINEAU-----	Slight	Slight	Severe: slope	Slight	Slight
113D: BOTTINEAU-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
119: ABERDEEN-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
122: FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: slope wetness	Slight	Slight
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
123: EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
123B: EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
124C: HEIMDAL-----	Slight	Slight	Severe: slope	Slight	Slight
SIOUX-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
125C: HEIMDAL, VERY STONY-----	Moderate: large stones	Moderate: large stones	Severe: large stones	Slight	Moderate: large stones

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
EMRICK, VERY STONY-----	Moderate: large stones	Moderate: large stones	Severe: large stones	Slight	Moderate: large stones
125F: HEIMDAL, VERY STONY-----	Severe: slope	Severe: slope	Severe: large stones slope	Moderate: slope	Severe: slope
ESMOND, VERY STONY-----	Severe: slope	Severe: slope	Severe: large stones slope	Moderate: slope	Severe: slope
126: FRAM, SALINE----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
127: FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: slope wetness	Slight	Slight
129: BORUP, SALINE---	Severe: excess salt flooding wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
COLVIN, SALINE--	Severe: excess salt flooding wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
131D: MIRANDA VARIANT-	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium slope	Slight	Severe: excess sodium
133: FORDVILLE-----	Slight	Slight	Moderate: slope	Slight	Slight
134: BORUP-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
135: MIRANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
LARSON-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
137: STIRUM-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
140B: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
141: EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
LETCHER-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
144: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
144B: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly slope wetness	Moderate: wetness	Moderate: wetness
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
145: GRANO, SALINE---	Severe: too clayey ponding	Severe: excess salt too clayey ponding	Severe: excess salt too clayey ponding	Severe: too clayey ponding	Severe: excess salt too clayey ponding
146: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
149B: MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
150: PITS, GRAVEL---	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones droughty
W: WATER-----	---	---	---	---	---

